

Michael He

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Education

University of Virginia | Charlottesville, VA

Bachelor of Science in Computer Science, GPA: 3.98

Relevant Courses: Data Structures and Algorithms, Computer Systems Organization, Discrete Math and Theory, Linear Algebra, Software Development Essentials, Introduction to Cybersecurity, Data Science

May 2025

Dean's List

Experience

Runway

Jan 2023 – Present

Software Engineer Intern

Remote

- Produced production level code to manage over 2000 college students and businesses.
- Interacted with other developers to manage and build a full stack website.
- Collaborated with project managers, designers, and developers to define project goals, requirements, and timelines.
- Built over 20 user interface components and pages using Next.js, React.js, and Tailwind CSS.
- Worked with developers to build Java Spring backend routes to organize over 200 business projects.

Projects

Personal Portfolio | React.js, Next.js, Tailwind CSS, GitHub, Git | Personal

Sep 2023 – Present

- Designed and developed a personal portfolio website utilizing modern web technologies, including Next.js, Tailwind CSS, and TypeScript.
- Utilized Tailwind CSS for responsive and visually appealing UI/UX design, ensuring a seamless user experience across various devices.
- Deployed the web app to GitHub pages and resolved linking conflicts.

CheapGPT Discord Bot | JavaScript, Discord API, OpenAI API | Personal

Jun 2023 – Present

- Launched a Node.js based Discord bot to allow users to interact with ChatGPT 4 in a server setting.
- Continuously maintain and update the Discord bot to ensure optimal performance and scalability.
- Generated a file directory system when the text exceeded the Discord character limit.
- Implemented commands for users to interact with the bot.

Runway Website | Next.js, React.js, Java Spring, Tailwind, AWS DynamoDB, Git, TypeScript | Runway

Jan 2023 – Present

- Launched a full stack website modeled using Figma.
- Built a page for businesses to view student profiles.
- Developed a page listing business submitted projects created functionalities for students to apply/unapply to projects.
- Restructured pricing and home landing pages with Next.js.
- Interacted with the AWS DynamoDB and AWS S3 to retrieve and render website components.
- Utilized Tailwind CSS and flexbox to optimize desktop and mobile views.
- Generated backend routes using Java Spring Boot hosted on an Amazon EC2 instance.
- Working to rebuild the entire site from React.js to Next.js and Tailwind CSS.

Chess Elo Calculator | JavaScript, HTML, CSS | Personal

Mar 2022 – May 2022

- Used JavaScript, HTML, and CSS to code a website that calculates the change in chess Elo depending on who won.
- Created a toggleable dark mode feature for users.
- Implemented FIDE's performance rating Elo algorithm.

Awards

AP Scholar with Distinction – College Board

Jul 2021

Skills

Programming Languages: Java, Python, C, JavaScript, TypeScript, HTML, CSS, R

Technologies: GitHub, Java Spring/Spring Boot, Amazon DynamoDB, Amazon S3, Amazon EC2, Node.js, React.js, Next.js, Tailwind CSS, Bootstrap CSS, Git, Java Gradle, ggplot2, OpenAI API, Discord API, JUnit

Languages: English (native), Chinese (conversational)